










1. ALL CONSTRUCTION MATERIAL AND METHODS SHALL COMPLY WITH THE LATEST EDITION OF THE STATE OF CALIFORNIA STANDARD SPECIFICATIONS (APRIL 2006).
2. ALL UNDERGROUND UTILITIES SHALL BE COMPLETE BEFORE PLACING OF BASE ROCK UNLESS OTHERWISE NOTED.
3. ALL MATERIALS SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR UNLESS OTHERWISE NOTED.
4. PAVING CONTRACTOR TO RESET ALL MANHOLE RIMS, VALVE BOXES, UTILITY BOXES, AND CONCRETE VAULTS TO GRADE AFTER THE LAST LIFT OF PAVING.
5. THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE A MINIMUM OF 36" OF COVER IN PAVEMENT AREA AND 18" OF COVER IN LANDSCAPE AREA FOR THE PROTECTION OF ALL INSTALLED UTILITIES DURING THE CONSTRUCTION OF THIS PROJECT.
6. THE CONTRACTOR IS RESPONSIBLE FOR MATCHING EXISTING ELEVATIONS IN STREETS, SURROUNDING LANDSCAPE AND OTHER IMPROVEMENTS WITH A SMOOTH TRANSITION IN PAVING, CURBS, GUTTERS, SIDEWALKS, GRADING, ETC., AND TO AVOID ANY ABRUPT OR APPARENT CHANGES IN GRADES OR CROSS SLOPES, LOW SPOTS OR HAZARDOUS CONDITIONS.
7. CONCRETE CONTRACTOR SHALL VERIFY LOCATION OF DRIVEWAYS, SEWER LATERALS, AND WATER SERVICES BEFORE POURING CURBS AND SHALL MARK FACE OF CURBS WITH A LETTER "S" FOR SEWER LATERALS AND A LETTER "W" FOR WATER SERVICES.
8. EXISTING UTILITIES AND UNDERGROUND FACILITIES INDICATED ARE FOR INFORMATION ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE LOCATION AND DEPTH WITH COR BY POT-HOLING PRIOR TO CONSTRUCTION. NEITHER THE OWNER NOR THE ENGINEER ASSUMES RESPONSIBILITY THAT THE UTILITIES AND UNDERGROUND FACILITIES INDICATED WILL BE THE UTILITIES AND UNDERGROUND FACILITIES ENCOUNTERED.
9. THE CONTRACTOR SHALL PROVIDE ALL LIGHTS, SIGNS, BARRICADES, FENCING, FLAGMEN OR OTHER DEVICES NECESSARY TO PROVIDE FOR PUBLIC SAFETY AND IN ACCORDANCE WITH COR. ALL CONSTRUCTION FENCING SHALL BE GREEN SCREENED.
10. CONTRACTOR IS RESPONSIBLE FOR HAVING EXISTING GAS LINES, POWER LINES, WATER LINES, ETC. DISCONNECTED AND RELOCATED AS NECESSARY. CONTRACTOR SHALL COORDINATE WORK WITH COR AND/ OR OWNER.
11. THE CONTRACTOR MUST MAINTAIN THE STREETS, SIDEWALKS, AND ANY OTHER PUBLIC & PRIVATE RIGHTS-OF-WAY IN A CLEAN, SAFE, AND USABLE CONDITION. ANY SPILLS OF SOIL, ROCK OR CONSTRUCTION DEBRIS MUST BE REMOVED FROM THE PUBLICLY OWNED PROPERTY DURING CONSTRUCTION AND UPON COMPLETION OF THE PROJECT.
12. CONTRACTOR SHALL EXCAVATE AND EXPOSE ALL UTILITY CROSSINGS PRIOR TO LAYING PIPE. THE COR SHALL BE NOTIFIED OF ANY ADJUSTMENTS NECESSITATED BY CONFLICT WITH EXISTING UTILITIES.
13. CONTRACTOR SHALL BE RESPONSIBLE TO REPAIR OR REPLACE ANY EXISTING IMPROVEMENTS OF UNDERGROUND FACILITIES DAMAGED BY HIM, HIS SUBCONTRACTORS OR HIS MATERIAL SUPPLIERS TO THE SATISFACTION OF THE COR.
14. IT IS THE CONTRACTORS RESPONSIBILITY TO ADJUST EXISTING AND NEW VAULTS, MANHOLES, VALVES, BOXES, METERS, AND OTHER UTILITIES TO FINISH GRADE.
15. ADJACENT STREETS ARE TO BE CLEANSSED DAILY OF ALL DIRT AND DEBRIS THAT ARE THE RESULT OF OPERATION.
16. CONTRACTOR SHALL PROVIDE BARRICADE AND WARNING LIGHTS FOR ALL OPEN EXCAVATION.
17. DUST SHALL BE CONTROLLED BY WATERING OR OTHER APPROVED METHODS.
18. THE GENERAL CONTRACTOR SHALL PROTECT THE EXISTING CONDITION OF THE ADJACENT EXISTING BUILDINGS, AND LANDSCAPING AS NOTED TO PROTECT FROM DAMAGE BY NEW WORK.
19. SHOULD EXISTING UTILITIES INTERFERE WITH THE NEW WORK, THE CONTRACTOR SHALL NOTIFY THE COR AND SHALL NOT REMOVE OR DISCONNECT ANY EXISTING SERVICE WITHOUT THE WRITTEN PERMISSION OF THE COR.
20. UTILITIES OR SERVICES TEMPORARILY REMOVED OR DISCONNECTED IN ORDER TO PERFORM THE WORK SHALL BE REBUILT OR REPLACED TO MATCH THE (E) CONDITION PRIOR TO THEIR REMOVAL AND REINSTALLATION. SUCH WORK SHALL BE SUBJECT TO THE APPROVAL OF THE COR.
21. REFER TO THE CIVIL UTILITY PLAN AND OTHER DOCUMENTS FOR ADDITIONAL REQUIREMENTS AND WORK. UTILITY AND SERVICE MODIFICATION AND ROUTING MAY EXTEND OUTSIDE THE BOUNDARY OF THE LIMIT OF PROJECT WORK. CONTRACTOR SHALL INCLUDE IN BID ALL COSTS AND MATERIALS ASSOCIATED WITH UTILITY AND SERVICE WORK OUTSIDE LIMIT OF PROJECT WORK BOUNDARY.
22. THE GENERAL CONTRACTOR SHALL EMPLOY A UTILITY AND SERVICE LOCATOR APPROVED BY THE COR IN LOCATING BURIED UTILITIES AND SERVICES AT (AND IN THE VICINITY OF) THE PROJECT.
23. SAFETY OF PERSONNEL AND PROPERTY DURING DEMOLITION AND EXCAVATION WORK SOLELY THE RESPONSIBILITY OF THE CONTRACTOR. ONLY THE EXTENT OF THE WORK IS INDICATED; AND NOT THE METHOD, SEQUENCE, OR SAFETY PROCEDURES AND CONSIDERATIONS. REVIEW OF THE CONTRACTOR'S SUBMITTALS IS NOT INTENDED TO RELIEVE HIM/HER OF ANY OF THE ABOVE RESPONSIBILITY.
24. AT ALL TIMES DURING CONSTRUCTION AND UNTIL FINAL COMPLETION, THE CONTRACTOR WHEN HE OR HIS SUBCONTRACTOR ARE OPERATING EQUIPMENT ON THE SITE, SHALL PREVENT THE FORMATION OF ANY AIRBORNE NUISANCE BY WATERING AND/OR TREATING THE SITE OF THE WORK IN SUCH A MANNER THAT WILL CONFINE DUST PARTICLES TO THE IMMEDIATE SURFACE OF THE WORK, THE CONTRACTOR WILL BE RESPONSIBLE FOR ANY DAMAGED CAUSED BY DUST FROM HIS OWN ACTIVITIES OR HIS SUBCONTRACTOR'S ACTIVITIES IN PERFORMING THE WORK UNDER THIS CONTRACT AND SHALL BE RESPONSIBLE FOR ANY CITATIONS, FINES OR CHARGES RESULTING FROM DUST NUISANCE.

[illegible]

SITE SYMBOLS - UTILITIES

	WATER VALVE
—SD—	DRAIN LINE, STORM
—G—	GAS LINE
	PIPING, SCREWED GATE VALVE
—CATV—	CABLE TELEVISION LINE
—CCTV—	CLOSED CIRCUIT TELEVISION LINE
—T—	TELEPHONE LINE
	UTILITY, WATER MANHOLE
—W—	WATER LINE
—DW—	DOMESTIC WATER LINE
—FW—	FIRE WATER LINE
	HYDRANT, FIRE
	HYDRANT PAN, FIRE
	UTILITY, STORM MANHOLE
	UTILITY, STORM DROP INLET
	UTILITY, SANITARY MANHOLE
—SS—	SANITARY SEWER LINE
	COMMUNICATIONS MANHOLE
	UTILITY CLEANOUT
—>—	ELECTRICAL, GUY WIRE
—E—	ELECTRICAL LINE
—COM—	COMMUNICATION LINE
●	PIV
	DIRECTION OF SURFACE FLOW
	RPDDCV

25. THE NOISE LEVEL OF THE CONTRACTOR'S OPERATING SHALL BE KEPT TO A MINIMUM AS PER VA STANDARDS.
26. PLEASE COMPLY WITH VA NORTHERN CALIFORNIA HEALTH CARE SYSTEM, MATHER CAMPUS STANDARDS FOR CONSTRUCTION HOURS.
27. ALL RETAINING WALLS WITHIN VA PROPERTY SHALL BE INSPECTED BY THE COR FOR COMPLIANCE AND SAFETY. NO VERTICAL EXCAVATIONS SHALL BE PERMITTED UNLESS THE CONTRACTOR HAS AN APPROVAL FROM THE COTR AND STARTS CONSTRUCTION OF THE RETAINING WALL WITHIN 48 HOURS.
28. NO WORK SHALL BEGIN UNLESS THESE PLANS HAVE BEEN REVIEWED AND SIGNED BY THE COR.
29. ALL EXCAVATIONS SHOULD BE PERFORMED IN ACCORDANCE WITH CAL OSHA REQUIREMENTS, AND SOILS REPORT RECOMMENDATIONS.
30. THE CONTRACTOR IS RESPONSIBLE FOR THE REPAIR OF PUBLIC AND PRIVATE IMPROVEMENTS/FACILITIES DAMAGED BY HIS OPERATIONS INCLUDING BUT NOT LIMITED TO MONUMENTS, BENCHMARKS, CAR PAVEMENT, PAVEMENT MARKINGS, TRAFFIC STRIPING AND SIGNAGE, TRAFFIC LOOPS, EXISTING FIBER OPTIC, EXISTING SEWER MAINS ETC.
31. THE CONTRACTOR SHALL PROVIDE PROMPT, WRITTEN NOTIFICATION TO THE COR AND CIVIL ENGINEER CONCERNING CONFLICTS WITH, OR RECOMMENDED DEVIATIONS FROM CODES, LAWS, REGULATIONS, STANDARDS, AND OPINIONS OF REVIEW OFFICIALS AS DESCRIBED ABOVE. NO WORK ALTERING THE SCOPE OF THE VA CONTRACT SHALL BE UNDERTAKEN PRIOR TO RECEIPT OF WRITTEN APPROVAL FROM THE COR.
32. THE SOIL ENGINEER'S AREA OF RESPONSIBILITY SHALL INCLUDE, BUT NEED NOT BE LIMITED TO, THE PROFESSIONAL OBSERVATION AND APPROVAL CONCERNING THE PREPARATION OF GROUND RECEIVING FILLS, TESTING FOR REQUIRED COMPACTION, STABILITY OF ALL FINISH SLOPES, DESIGN OF BUTTRESS FILLS, SUBDRAIN INSTALLATION AND INCORPORATION OF DATA SUPPLIED BY THE ENGINEERING GEOLOGIST'S SOILS REPORT.
33. ALL CUT SLOPES SHALL BE INVESTIGATED BOTH DURING AND AFTER GRADING BY THE SOILS ENGINEER TO DETERMINE IF ANY SLOPE STABILITY PROBLEM EXISTS. SHOULD EXCAVATION DISCLOSE ANY GEOLOGICAL HAZARDS, THE SOILS ENGINEER SHALL RECOMMEND TREATMENT TO THE PROJECT ENGINEER AND THE COR FOR APPROVAL.
34. ALL EXPLORATORY TRENCHES AND PITS SHALL BE EXCAVATED AND RECOMPACTED, UNDER THE DIRECTION AND SUPERVISION OF THE SOILS ENGINEER. ALL EXPLORATORY TRENCH AND PIT LOCATIONS SHALL BE SHOWN ON THE "AS-BUILT" PLANS.
35. UTILITY TRENCH BACKFILL AND SUBGRADE PREPARATION THROUGHOUT SITE SHALL CONFORM TO GEOTECHNICAL REPORT BY SAGE INTEGRATING EARTH AND STRUCTURE, DATED JULY 11, 2012. BACKFILL AND SUBGRADE SHALL BE OBSERVED AND OR TESTED BY GEOTECHNICAL ENGINEER.

CONTRACTOR SHALL BE RESPONSIBLE FOR POTHOLING EXISTING UTILITIES WITHIN THE AREA OF WORK. POTHOLE AS NECESSARY TO FULLY LOCATE & IDENTIFY EXISTING UTILITIES. POTHOLING SHALL BE DONE AND THE RESULTS REPORTED TO THE ENGINEER PRIOR TO THE START OF WORK.

CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS, INCLUDING THE SAFETY OF ALL PERSONS AND PROPERTY, DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, AND THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER AND THE ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR THE ENGINEER.

THE SOILS REPORT FOR THIS PROJECT IS TITLED "CONSOLIDATED
OUTPATIENT SURGICAL SPECIALTY CLINIC, VETERAN AFFAIRS MEDICAL
CENTER, MATHER CALIFORNIA" BY SAGE ENGINEERS, DATED JULY 11,
2012.

A NATIONAL GEODETIC SURVEY MONUMENT WAS USED AS THE BASIS OF ELEVATION FOR THIS SURVEY. X 744, BEING A 1 1/2" BRASS DISK IN CONCRETE INSIDE A MONUMENT WELL. STAMPED "X 744" WITH PUNCH. PID JS0830

ELEVATION = 96.8 FEET (NAVD 88)

THE TYPES, LOCATIONS, SIZES AND/OR DEPTHS OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THIS TOPOGRAPHIC SURVEY ARE APPROXIMATE AND WERE OBTAINED FROM SOURCES OF VARYING RELIABILITY. ONLY ACTUAL EXCAVATION WILL REVEAL THE TYPES, EXTENT, SIZES, LOCATIONS AND DEPTHS OF SUCH UNDERGROUND UTILITIES. A REASONABLE EFFORT HAS BEEN MADE TO LOCATE AND DETERMINE ALL KNOWN UNDERGROUND UTILITIES. HOWEVER, THE ENGINEER CAN ASSUME NO RESPONSIBILITY FOR THE COMPLETENESS OR ACCURACY OF ITS DELINEATION OF SUCH UNDERGROUND UTILITY WHICH MAY BE ENCOUNTERED, BUT WHICH ARE NOT SHOWN ON THIS SURVEY.

1. ALL SITE WORK SHALL BE IN CONFORMANCE WITH THE UNIFORM FEDERAL ACCESSIBILITY STANDARDS EXCEPT AS MODIFIED BY THE DEPARTMENT OF VETERANS AFFAIRS BARRIER FREE DESIGN GUIDE (PG-18-13).
2. CURB RAMPS SHALL BE A MINIMUM OF 4 FEET WIDE AND NOT EXCEED A SLOPE OF 1:12 (8.33%).
3. ENTRANCE RAMPS TO BUILDINGS SHALL NOT EXCEED A SLOPE OF 1:33.3 (3%) UNLESS RAILINGS ARE SHOWN ON ARCHITECTURAL PLANS, IN WHICH CASE THE SLOPE SHALL NOT EXCEED 1:20 (5%).
4. A 2% MAXIMUM SLOPE LANDING SHALL BE PROVIDED AT PRIMARY ENTRANCES TO BUILDINGS. THE LANDINGS SHALL HAVE A MINIMUM WIDTH OF 72" WHEN THE DOOR OPENS INTO THE BUILDING. WHEN THE DOOR OPENS ONTO THE LANDING THE DEPTH SHALL BE 42" PLUS THE WIDTH OF THE DOOR MINIMUM.
5. RAMPS ARE DEFINED AS ANY WALKWAY BETWEEN SLOPES OF 1:33.3 (3%) AND 1:20 (5%), AND SHALL HAVE A MAXIMUM CROSS SLOPE OF 2% RAMPS SHALL HAVE INTERMEDIATE (2% MAXIMUM SLOPE) LANDINGS A MINIMUM OF 60" BY 48" IN SIZE. LANDINGS SHALL BE EVERY 35 FEET FOR RAMPS BETWEEN 1:33.3 AND 1:20. ALL RAMPS SHALL HAVE HANDRAILS.
6. MAXIMUM CROSS SLOPE ON ANY SIDEWALK OR RAMP SHALL BE 2% MAXIMUM. SLOPE WITHIN PARKING STALLS DESIGNATED AS ACCESSIBLE PARKING SHALL BE 2% IN ANY DIRECTION.

IF THERE ARE ANY DISCREPANCIES BETWEEN DIMENSIONS IN DRAWINGS AND EXISTING CONDITIONS WHICH WILL AFFECT THE WORK, THE CONTRACTOR SHALL BRING SUCH DISCREPANCIES TO THE ATTENTION OF THE ENGINEER FOR ADJUSTMENT BEFORE PROCEEDING WITH THIS WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER FITTING OF ALL WORK AND FOR THE COORDINATION OF ALL TRADES, SUBCONTRACTORS, AND PERSONS ENGAGED UPON THIS CONTRACT.

A SUPPLEMENTAL TOPOGRAPHIC SURVEY WAS PERFORMED ON JULY 17TH, 2013 BY SANDIS UNDER THE DIRECTION OF LAURA CABRAL PLS# 7756.

ADDITIONAL UTILITY INFORMATION OBTAINED FROM RECORD DRAWINGS
PROVIDED BY THE VA.

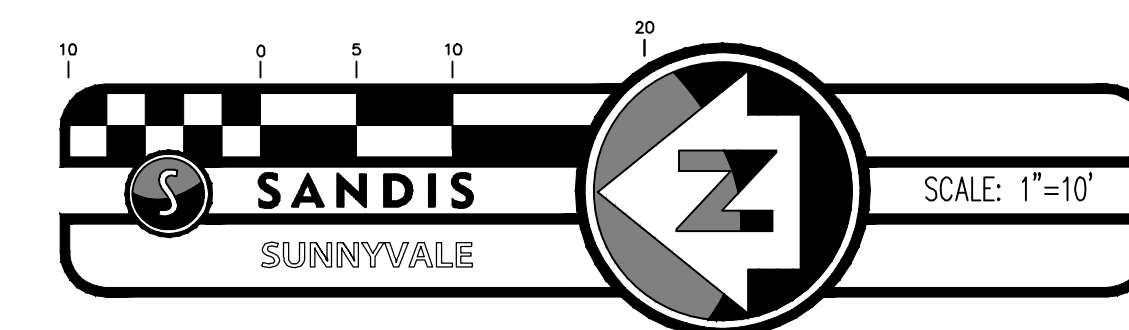
DI	DROP INLET
DW	DOMESTIC WATER
(E)	EXISTING
EX	EXISTING
FH	FIRE HYDRANT
FW	FIRE WATER
INV	INVERT ELEVATION
PRD	PER RECORD DRAWINGS
RIM	RIM ELEVATION
RPDDCV	REDUCED PRESSURE DOUBLE DETECTOR CHECK VALVE
S	SLOPE
SD	STORM DRAIN
SCDO	STORM DRAIN CLEANOUT
SDMH	STORM DRAIN MANHOLE
SS	SANITARY SEWER
SSCO	SANITARY SEWER CLEANOUT
SSMH	SANITARY SEWER MANHOLE
VA	DEPARTMENT OF VETERANS AFFAIRS
W	WATER
W/	WITH
WM	WATER METER
WV	WATER VALVE

NOTES:

- VA TO PROVIDE TOTAL WASTE FIXTURE UNITS OF ADJACENT COSS BUILDING TO VERIFY CAPACITY.
- WATER LINES TO HAVE FLEXIBLE JOINTS AT BUILDING POINT OF CONNECTION
- CONTRACTOR TO OBTAIN ADJACENT COSS BUILDING AS-BUILTS TO VERIFY CEMP DESIGN INTENT CAN STILL BE MET PRIOR TO CONSTRUCTION AND REPORT BACK TO ENGINEER ANY DISCREPANCIES.

C 100	COVER SHEET
C 200	TOPOGRAPHIC SURVEY
C 300	DEMOLITION PLAN
C 400	GRADING AND DRAINAGE PLAN
C 500	UNDERGROUND UTILITIES PLAN
C 600	CONSTRUCTION DETAILS
C 601	CONSTRUCTION DETAILS
C 700	EROSION CONTROL PLAN
C 701	EROSION CONTROL DETAILS

VA FORM 08- 6231, OCT 1978 12/6/2012 5:11:55 PM File: X:\P\210136\VA Mother-CEMP\ENG\CONTRACT\C 100 COVER.dwg Date: May 07, 2014 - 9:07am 100% CONSTRUCTION DOCUMENTS



BENCHMARK AND ELEVATION INFORMATION

A NATIONAL GEODETIC SURVEY MONUMENT WAS USED AS THE BASIS OF ELEVATION FOR THIS SURVEY, X 744, BEING A 1 1/2" BRASS DISK IN CONCRETE INSIDE A MONUMENT WELL. STAMPED "X 744" WITH PUNCH. PID JS0830

ELEVATION = 96.8 FEET (NAVD 88)

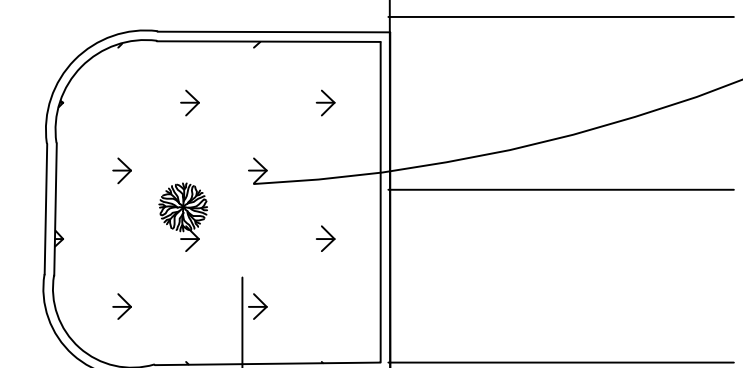
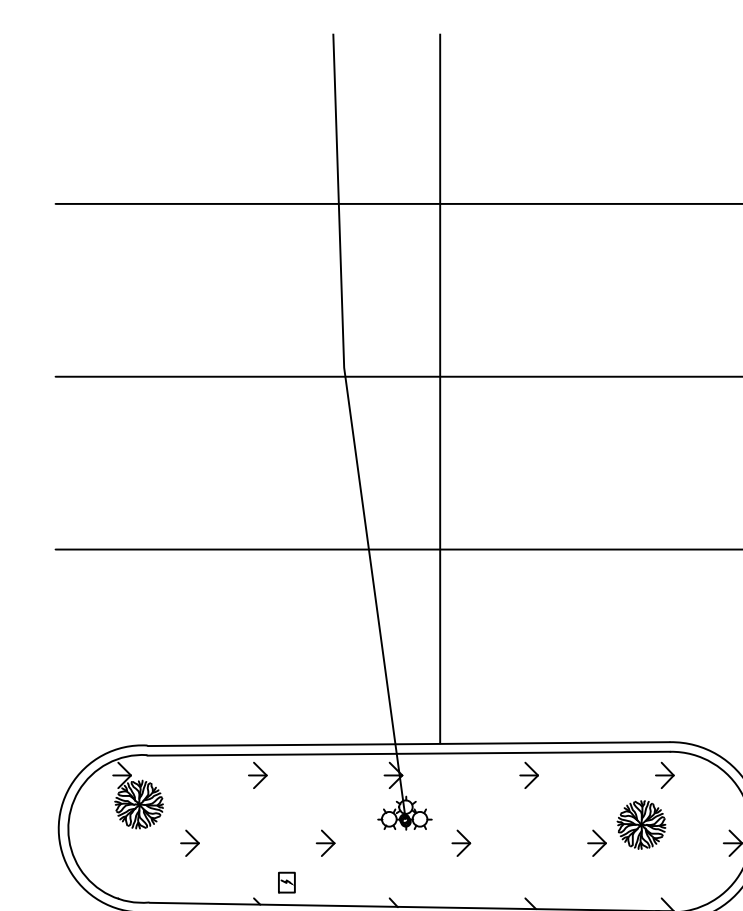
UNDERGROUND UTILITY NOTE

THE TYPES, LOCATIONS, SIZES AND/OR DEPTHS OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THIS TOPOGRAPHIC SURVEY ARE APPROXIMATE AND WERE OBTAINED FROM SOURCES OF VARYING RELIABILITY. ONLY ACTUAL EXCAVATION WILL REVEAL THE TYPES, EXTENT, SIZES, LOCATIONS AND DEPTHS OF SUCH UNDERGROUND UTILITIES. A REASONABLE EFFORT HAS BEEN MADE TO LOCATE AND DELINEATE ALL KNOWN UNDERGROUND UTILITIES. HOWEVER, THE ENGINEER CAN ASSUME NO RESPONSIBILITY FOR THE COMPLETENESS OR ACCURACY OF ITS DELINEATION OF SUCH UNDERGROUND UTILITIES WHICH MAY BE ENCOUNTERED, BUT WHICH ARE NOT SHOWN ON THIS SURVEY.

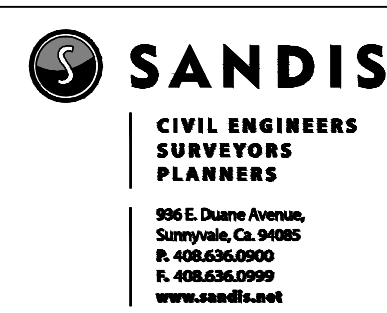
TOPOGRAPHIC NOTES

A SUPPLEMENTAL TOPOGRAPHIC SURVEY WAS PERFORMED ON JULY 17TH, 2013 BY SANDIS UNDER THE DIRECTION OF LAURA CABRAL PLS# 7756.

ADDITIONAL UTILITY INFORMATION OBTAINED FROM RECORD DRAWINGS PROVIDED BY THE VA.



CONSULTANTS:



DATE MAY 6, 2014

KENNETH N. OLCOTT
R.C.E. No. 51079, EXPIRES 9-30-15

KEY PLAN

ARCHITECT/ENGINEERS:



Drawing Title
TOPOGRAPHIC SURVEY

Approved: Project Director

Project Title
CONSOLIDATE / EXPAND
MEDICAL PROCEDURES
MINOR (CEMP)

Location
VANCHCS - MATHER, CA

Date
MAY 6, 2014

Checked
BC

Drawn
PCG

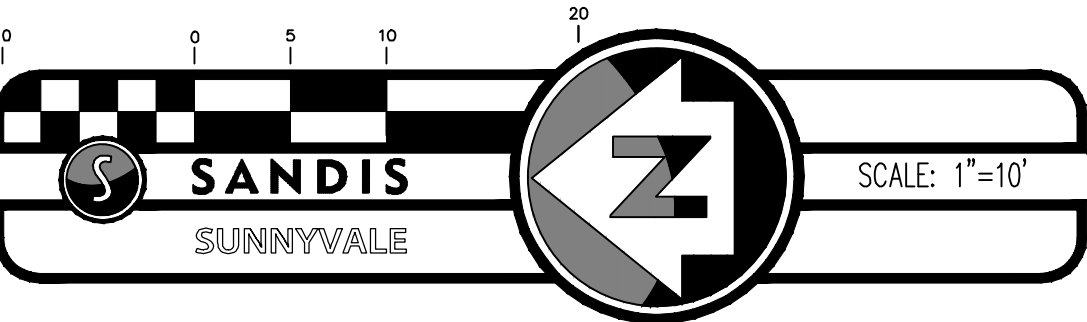
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612-111

Building Number

Drawing Number
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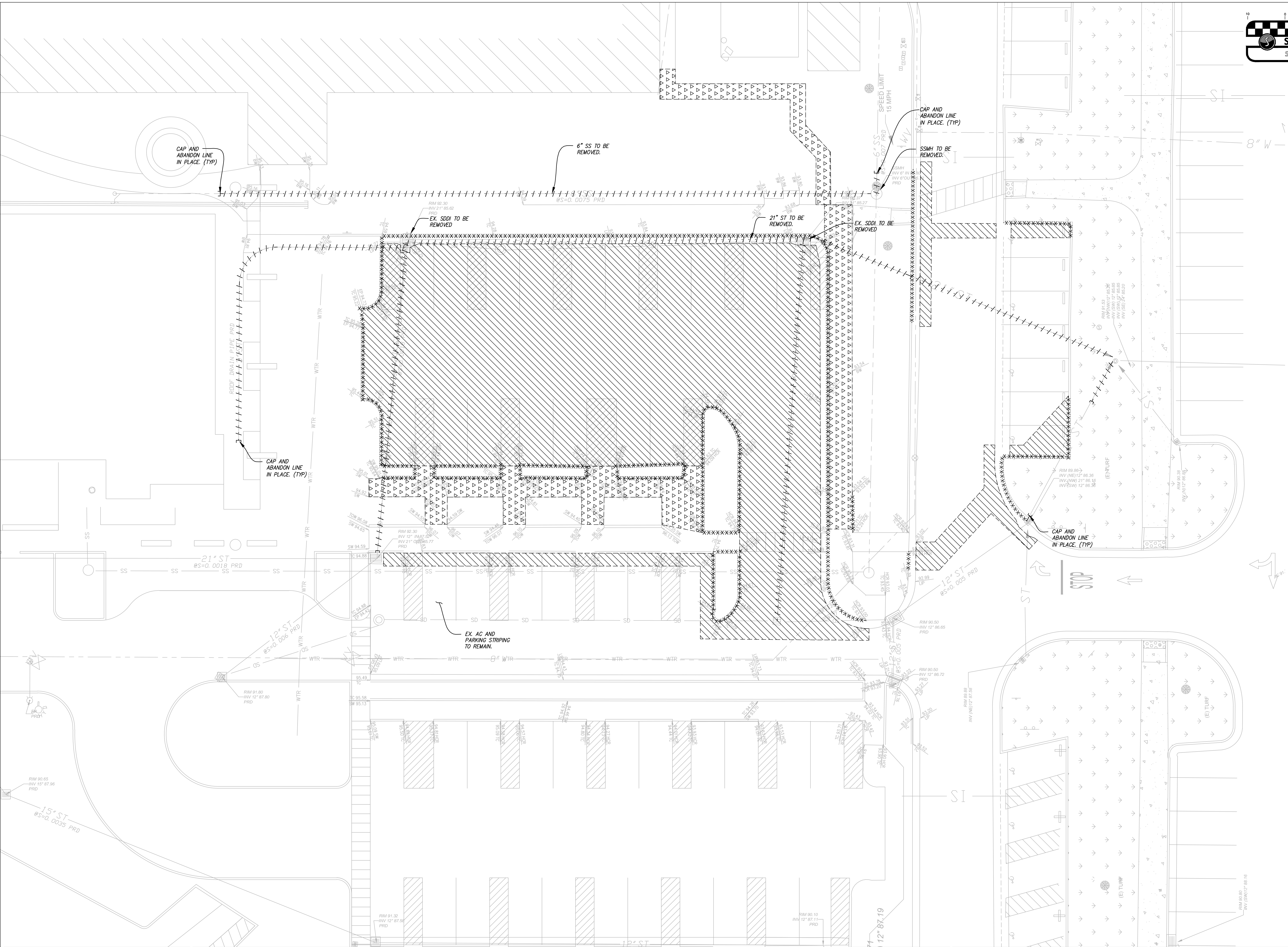
Office of
Facilities
Management





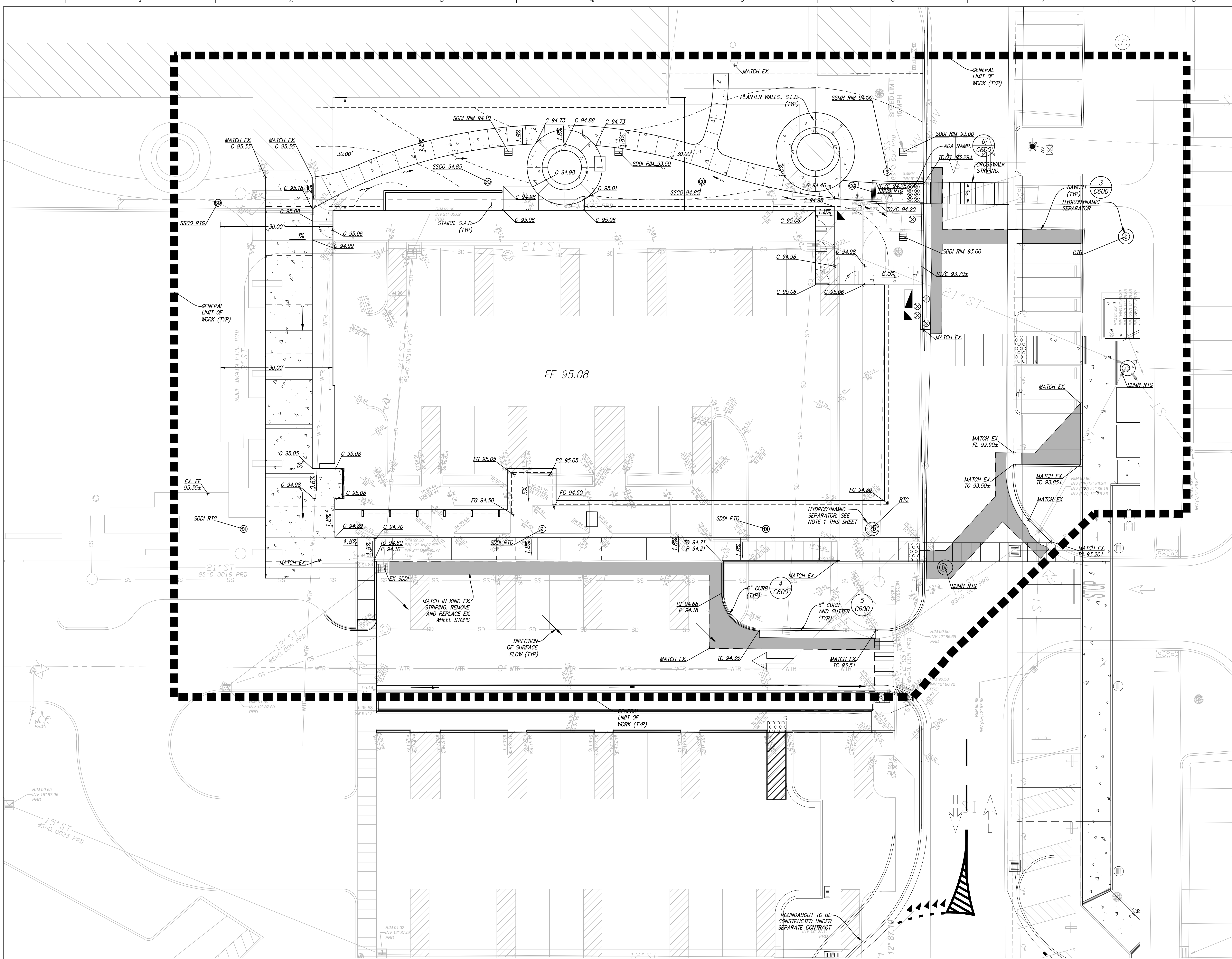
LEGEND

- UTILITY LINE TO BE REMOVED
- REMOVE AC AND BASE ROCK. SAWCUT AT NEAT, STRAIGHT LINES.
- REMOVE CONCRETE AND BASE ROCK. SAWCUT AT NEAT STRAIGHT LINES.
- REMOVE EX. LANDSCAPE. CLEAR AND GRUB ORGANIC MATERIAL.
- EX. CURB OR CURB & GUTTER TO BE REMOVED



CONSULTANTS: CIVIL ENGINEERS SURVEYORS PLANNERS 9401 Camino Arroyo Sunnyvale, Ca 94086 P: 408.266.0000 F: 408.266.0099 www.sandis.com	DATE MAY 6, 2014 KENNETH N. OLCOTT R.C.E. NO. 51079, EXPIRES 9-30-15	KEY PLAN	ARCHITECT/ENGINEERS: 239 9TH STREET, SUITE 201 SAN FRANCISCO, CA 94103 T 415 682-7378 F 415 682-7338 www.mefranchise.com	Drawing Title DEMOLITION PLAN		Project Title CONSOLIDATE / EXPAND MEDICAL PROCEDURES MINOR (CEMP)		Project Number 612-111	
				Approved: Project Director		Location VANCHCS - MATHER, CA		Building Number	
				Date MAY 6, 2014		Checked BC		Drawn PCG	
				Dwg. - of -		C 300		Drawing Number	
Issues & Revisions:		Date		Office of Facilities Management		Department of Veterans Affairs			

- LEGEND:
- AC PAVEMENT
 - CONCRETE SIDEWALK, S.L.D. FOR COLOR AND SCORE PATTERN
 - 6" CURB AND GUTTER
 - 6" CURB
 - SAWCUT LINE

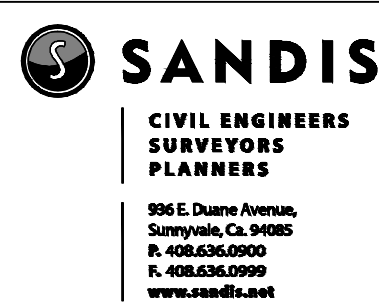


CONSULTANTS: CIVIL ENGINEERS SURVEYORS PLANNERS 9401 Camino Sur Sunnyvale, CA 94086 P: 408.266.0099 F: 408.266.0099 www.sandis.com		KEY PLAN		ARCHITECT/ENGINEERS: 239 9TH STREET, SUITE 201 SAN FRANCISCO, CA 94103 T: 415.682.7276 F: 415.682.7289 www.meridian-engineers.com		Drawing Title GRADING AND DRAINAGE PLAN		Project Title CONSOLIDATE / EXPAND MEDICAL PROCEDURES MINOR (CEMP)		Project Number 612-111	
Issues & Revisions:		DATE MAY 6, 2014 KENNETH N. OLCOTT R.C.E. NO. 51079, EXPIRES 9-30-15				Approved: Project Director		Location VANCHCS - MATHER, CA		Building Number	
								Date MAY 6, 2014		Drawing Number C 400	
								Checked BC		Drawn PCG	
										Dwg. - of -	

UTILITY NOTES

- HYDRODYNAMIC SEPARATOR SHALL BE FLOCARD DUAL-VORTEX HYDRODYNAMIC SEPARATOR MODEL DVS-36 OR APPROVED EQUAL WITH TREATMENT FLOW CAPACITY OF 25 GALLONS PER MINUTE (GPM), AND TOTAL FLOW CAPACITY OF 1,800 GPM.
- RIM ELEVATIONS (RTG) WITHIN LANDSCAPE AND PEDESTRIAN WALKWAYS TO BE GRADED (RTG).
- ALL UTILITY CROSSING SHALL HAVE A MINIMUM 12" VERTICAL CLEARANCE. IF 12" VERTICAL CLEARANCE CANNOT BE ACHIEVED PLACE A CONCRETE CAP BETWEEN UTILITIES.
- IRRIGATION AND DOMESTIC WATER METERS SHALL BE PER VA MATHER CAMPUS STANDARDS. SPRAYARCO UT110 SERIES. ALL NEW METERS SHALL CONNECT TO THE CAMPUS CONTROL SYSTEM. IRRIGATION AND DOMESTIC BACKFLOW PREVENTERS SHALL BE FISCO MODEL 825Y OR APPROVED EQUAL.
- SEE DETAIL 8 ON SHEET C601 FOR PIPE TRENCHING INFORMATION.
- SEE DETAILS 9 AND 9A ON SHEET C601 FOR ALL THRUST BLOCK INFORMATION.
- SEE MECHANICAL, ELECTRICAL, PLUMBING, AND LANDSCAPE PLANS FOR DRY UTILITY AND IRRIGATION DESIGN AND ROUTING.

CONSULTANTS:



DATE MAY 6, 2014

KENNETH N. OLCOTT
R.C.E. NO. 51079, EXPIRES 9-30-15

KEY PLAN

ARCHITECT/ENGINEERS:



239 9TH STREET, SUITE 201
SAN FRANCISCO, CA 94103
T 415.682.7276 F 415.682.7259
www.meridianinteriors.com

Drawing Title
UTILITY PLAN

Approved: Project Director

Project Title
CONSOLIDATE / EXPAND
MEDICAL PROCEDURES
MINOR (CEMP)

Location
VANCHCS - MATHER, CA

Date
MAY 6, 2014

Checked
BC

Drawn
PCG

Project Number
612-111

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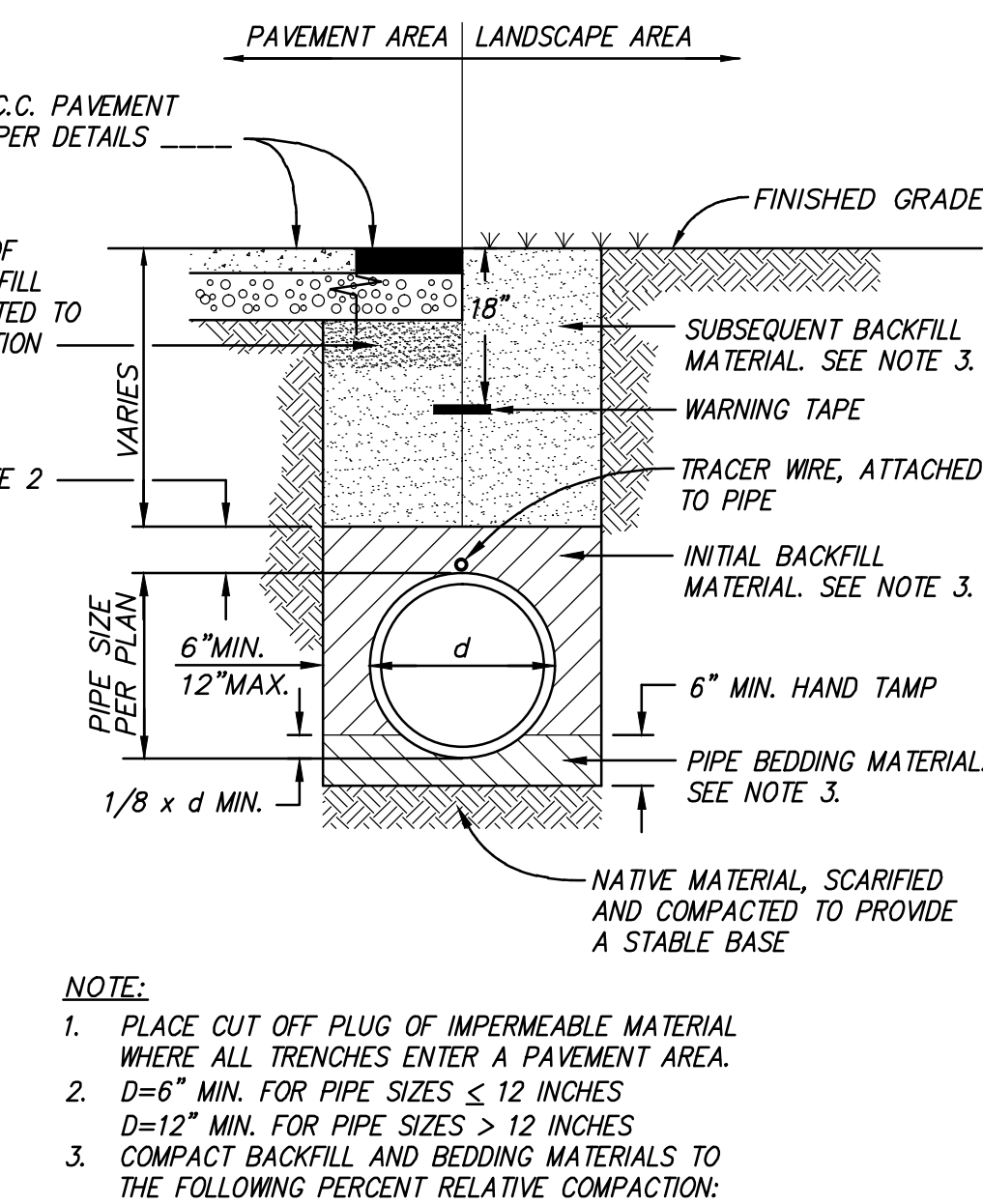
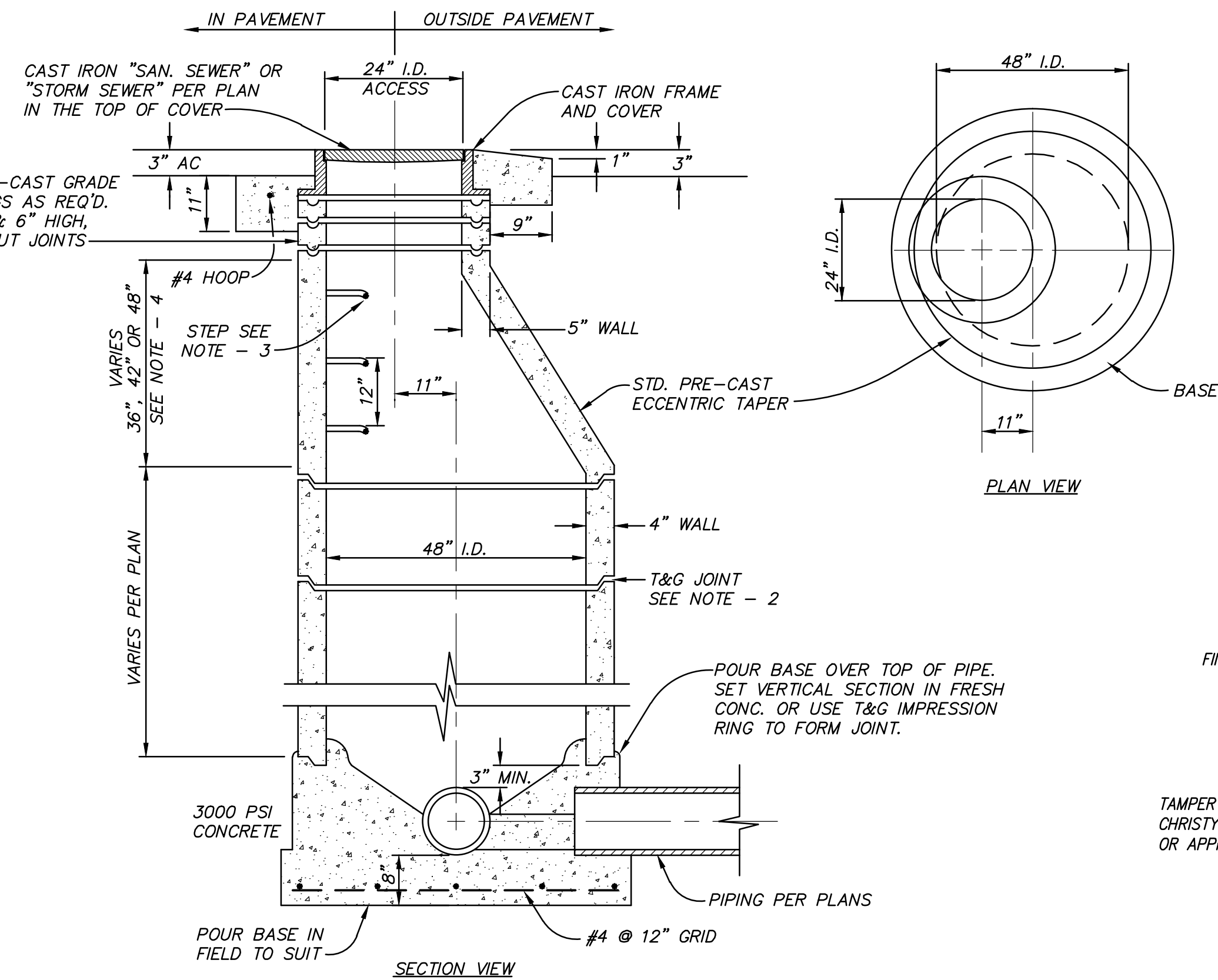
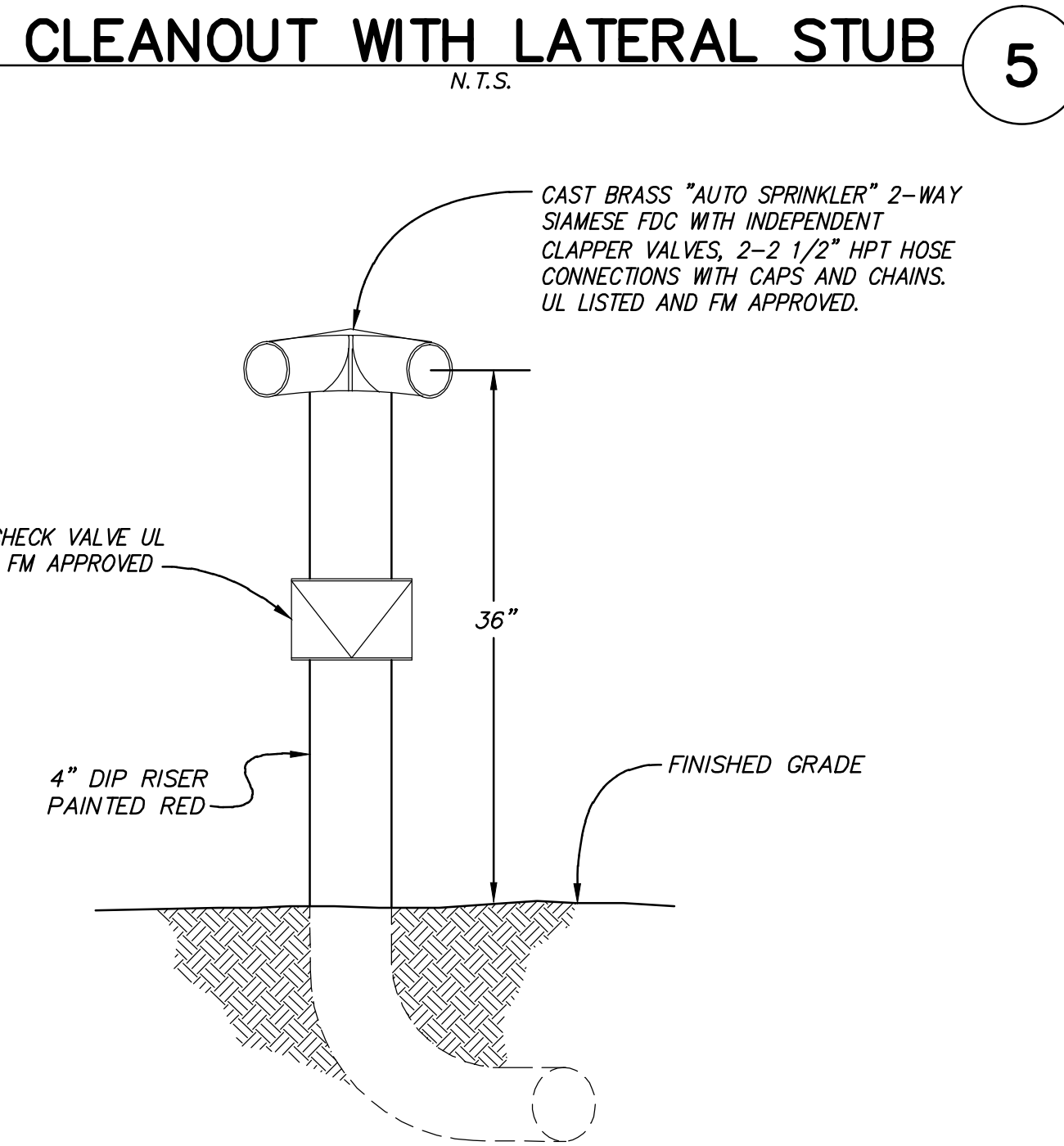
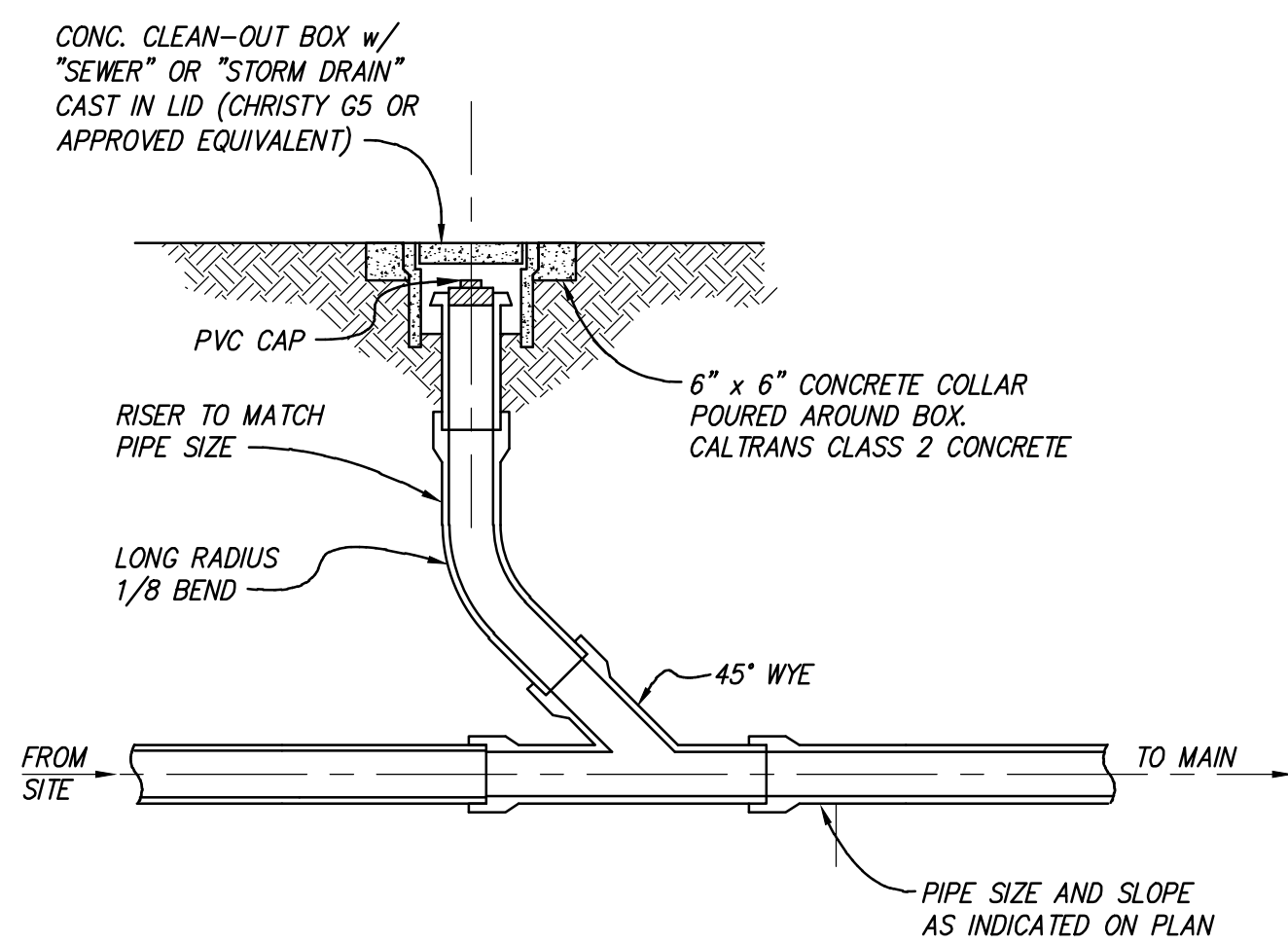
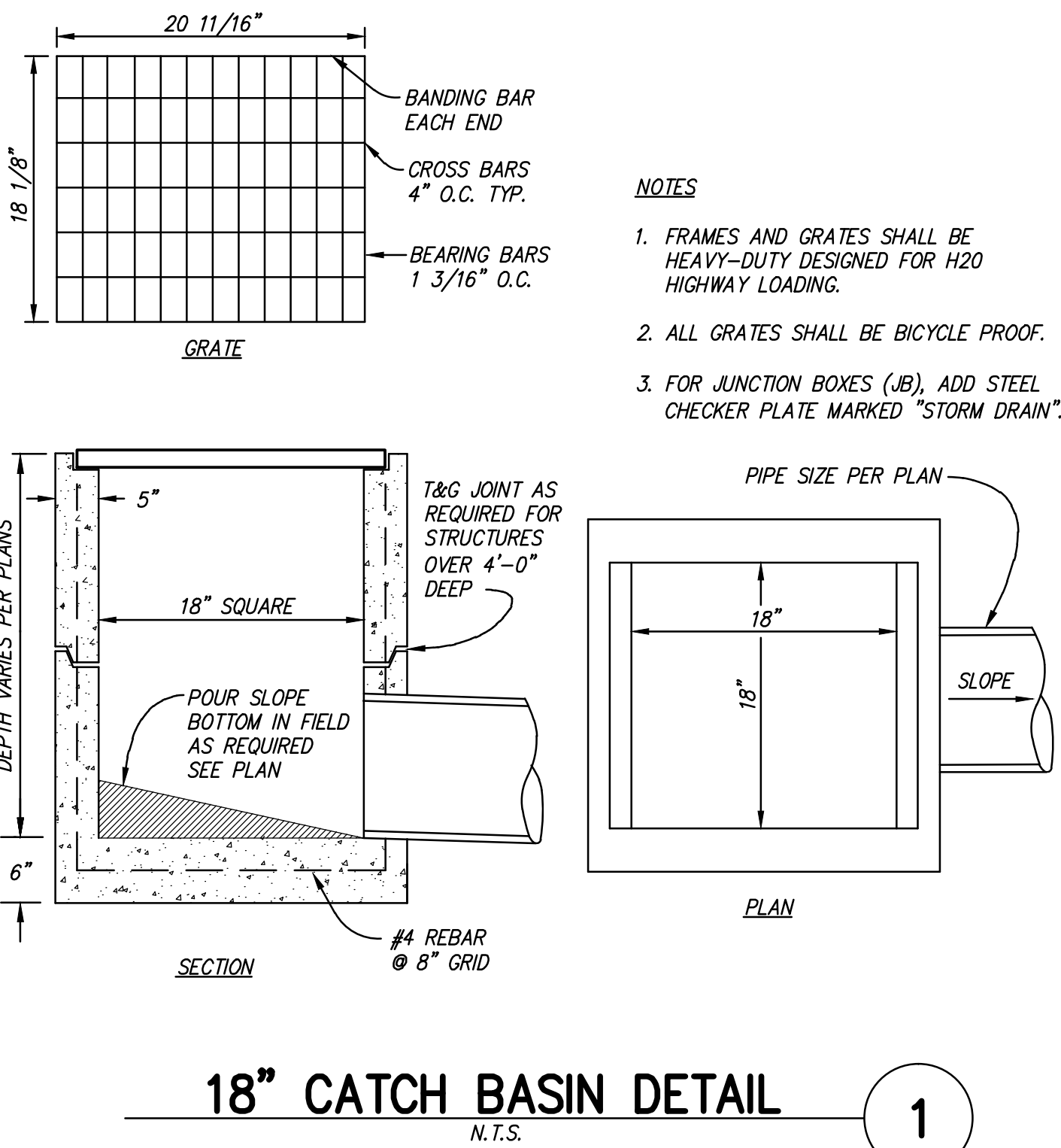
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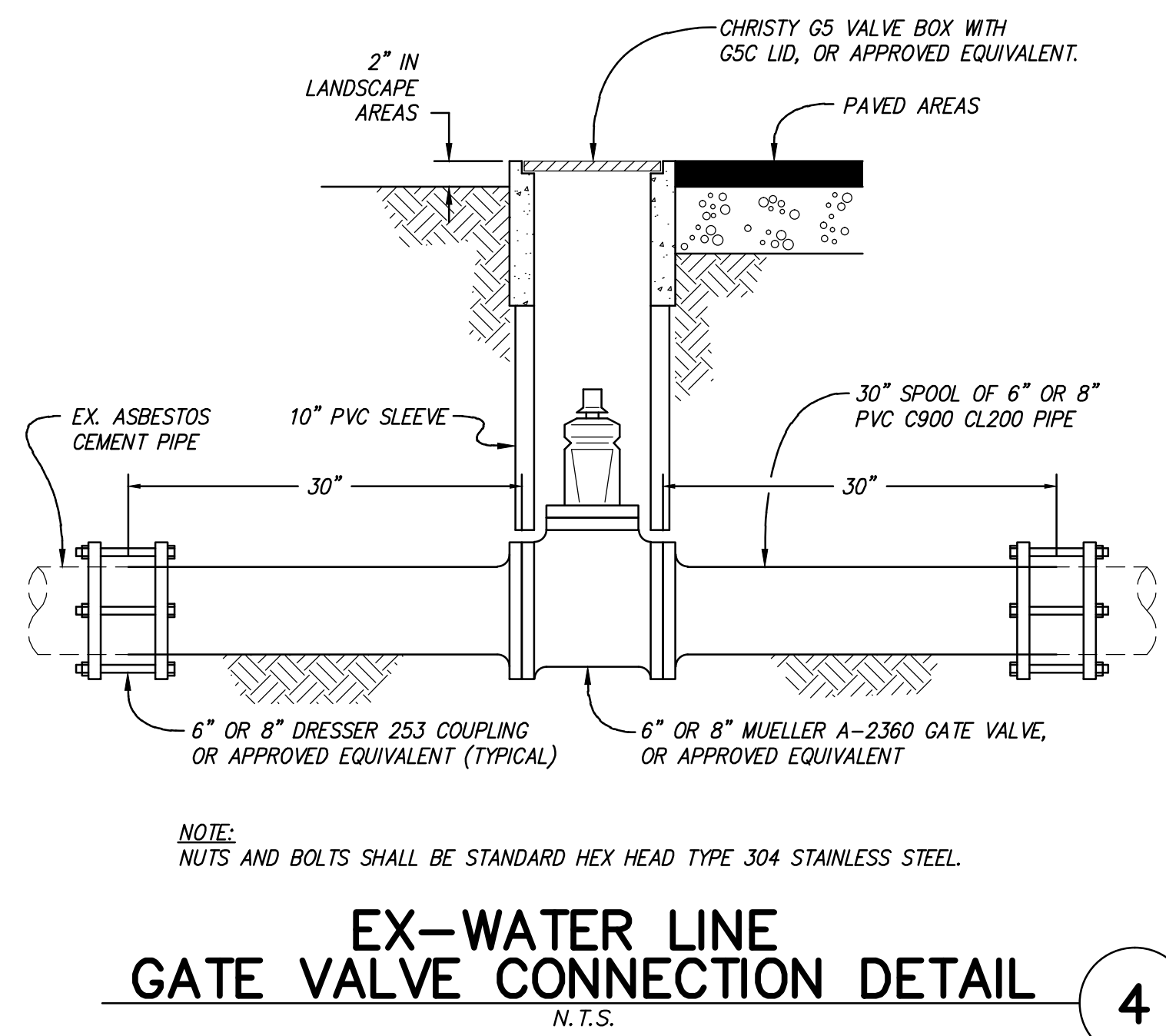
Office of
Facilities
Management



May 07, 2014 - 9:17am
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one eighth inch = one foot
one quarter inch = one foot
three eighths inch = one foot
one half inch = one foot
three quarters inch = one foot
one inch = one foot
one and one half inches = one foot
two inches = one foot
three inches = one foot
four inches = one foot
five inches = one foot
six inches = one foot
seven inches = one foot
eight inches = one foot
nine inches = one foot
ten inches = one foot
eleven inches = one foot
twelve inches = one foot
thirteen inches = one foot
fourteen inches = one foot
fifteen inches = one foot
sixteen inches = one foot
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eighteen inches = one foot
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thirty nine inches = one foot
forty inches = one foot
forty one inches = one foot
forty two inches = one foot
forty three inches = one foot
forty four inches = one foot
forty five inches = one foot
forty six inches = one foot
forty seven inches = one foot
forty eight inches = one foot
forty nine inches = one foot
fifty inches = one foot
fifty one inches = one foot
fifty two inches = one foot
fifty three inches = one foot
fifty four inches = one foot
fifty five inches = one foot
fifty six inches = one foot
fifty seven inches = one foot
fifty eight inches = one foot
fifty nine inches = one foot
sixty inches = one foot
sixty one inches = one foot
sixty two inches = one foot
sixty three inches = one foot
sixty four inches = one foot
sixty five inches = one foot
sixty six inches = one foot
sixty seven inches = one foot
sixty eight inches = one foot
sixty nine inches = one foot
seventy inches = one foot
seventy one inches = one foot
seventy two inches = one foot
seventy three inches = one foot
seventy four inches = one foot
seventy five inches = one foot
seventy six inches = one foot
seventy seven inches = one foot
seventy eight inches = one foot
seventy nine inches = one foot
eighty inches = one foot
eighty one inches = one foot
eighty two inches = one foot
eighty three inches = one foot
eighty four inches = one foot
eighty five inches = one foot
eighty six inches = one foot
eighty seven inches = one foot
eighty eight inches = one foot
eighty nine inches = one foot
ninety inches = one foot
ninety one inches = one foot
ninety two inches = one foot
ninety three inches = one foot
ninety four inches = one foot
ninety five inches = one foot
ninety six inches = one foot
ninety seven inches = one foot
ninety eight inches = one foot
ninety nine inches = one foot
one hundred inches = one foot



COMPACTION REQUIREMENTS				
	TRENCH SAND	TRENCH GRAVEL	APPROVED NATIVE	IMPORTED FILL
SUBSEQUENT BACKFILL MATERIAL (UNDER PAVEMENT)	N/A	N/A	90%	90%
SUBSEQUENT BACKFILL MATERIAL (IN LANDSCAPE)	N/A	N/A	85%	85%
INITIAL BACKFILL MATERIAL	95%	90%	N/A	N/A
BEDDING MATERIAL	95%	90%	N/A	N/A



THRUST BLOCK TABLE					
TYPE OF FITTING	90° BEND & BURIES	45° BEND	22 1/2° BEND	11 1/4° BEND	TEE OR DEAD END
TYPICAL PLAN VIEW					
REQUIRED BEARING TOTAL AREA IN SQUARE FEET					
Pipe Size	4"	6"	8"	10"	12"
	2.6	5.3	9.1	13.7	19.4
	1.4	2.9	5.0	7.5	10.5
	0.8	1.5	2.6	3.8	5.4
	0.4	0.8	1.3	1.9	2.7
	1.9	3.8	6.5	9.7	13.7

- THRUST BLOCK NOTES**
- Thrust blocks to be constructed of 2500 Class 3 Caltrans concrete.
 - Blocks to be poured against undisturbed soil.
 - Joints to be kept free of concrete. Allow working room.
 - Abrupt changes in vertical alignment shall be anchored per gravity block detail.
 - Areas given are for PVC C900 class 200 pipe at a static test pressure of 200 psi in soil with 2,000 psf bearing capacity. Subject to field conditions.
 - Tapping sleeves shall have thrust blocks sized the same as tees.



THRUST CALCULATION TABLE					
TYPE OF FITTING	90° BEND & BURIES	45° BEND	22 1/2° BEND	11 1/4° BEND	TEE OR DEAD END
TYPICAL PLAN VIEW					
THRUST FORCE T, IN POUNDS					
Pipe Size	4"	6"	8"	10"	12"
	5120	10580	18200	27370	38710
	2770	5725	9850	14815	20950
	1415	2920	5020	7555	10680
	710	1470	2525	3795	5370
	3620	7480	12865	19355	27370

- THRUST CALCULATION NOTES**
- CALCULATIONS BASED ON NFPA 24, TABLE A.10.8.2(a), 2010 EDITION
 - THRUST CALCULATED FOR 200 PSI STATIC PRESSURE

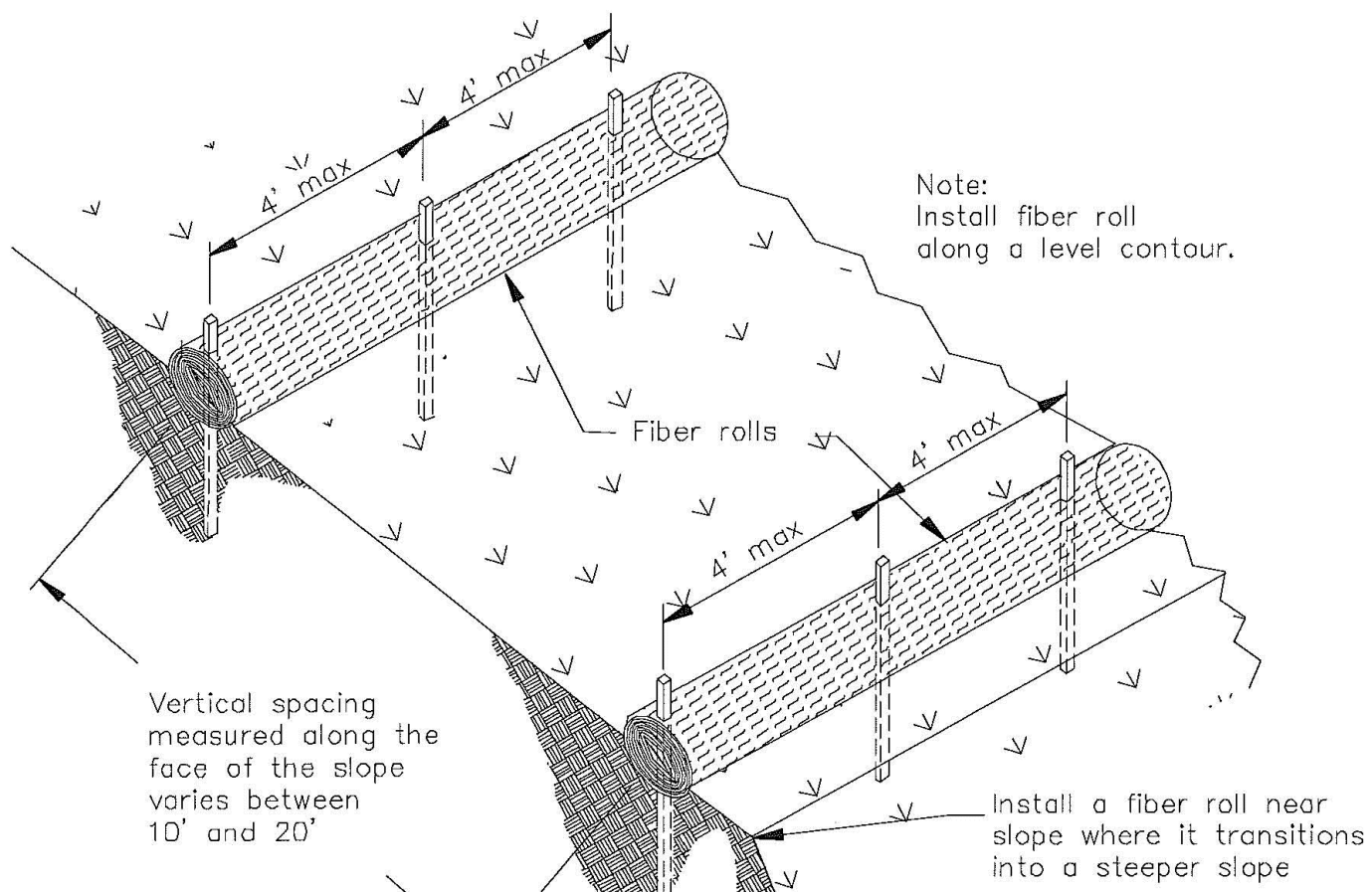


CONSULTANTS: CIVIL ENGINEERS SURVEYORS PLANNERS 9401 S. 10th Street Phoenix, AZ 85044 P: 602.956.0000 F: 602.956.0000 www.sandis.com		KEY PLAN		ARCHITECT/ENGINEERS: 239 9TH STREET, SUITE 201 SAN FRANCISCO, CA 94103 T: 415.682.7039 F: 415.682.7038 www.meiarchitect.com		Drawing Title CONSTRUCTION DETAILS		Project Title CONSOLIDATE / EXPAND MEDICAL PROCEDURES MINOR (CEMP)		Project Number 612-111	
Issues & Revisions:		Date		Approved: Project Director		Location VANCHCS - MATHER, CA		Building Number		Drawing Number C 601	
Date		May 6, 2014		Checked BC		Drawn PCG		Dwg. -- of --		Office of Facilities Management 	

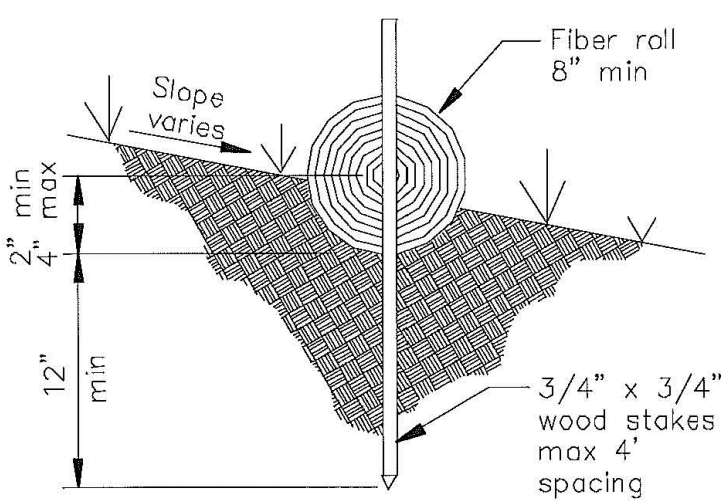
May 07, 2014 - 9:19am
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one eighth inch = one foot
one quarter inch = one foot
three eighths inch = one foot
one half inch = one foot
one inch = one foot
three quarters inch = one foot
one inch = one foot
one and one half inches = one foot
two inches = one foot
three inches = one foot

Fiber Rolls

SE-5



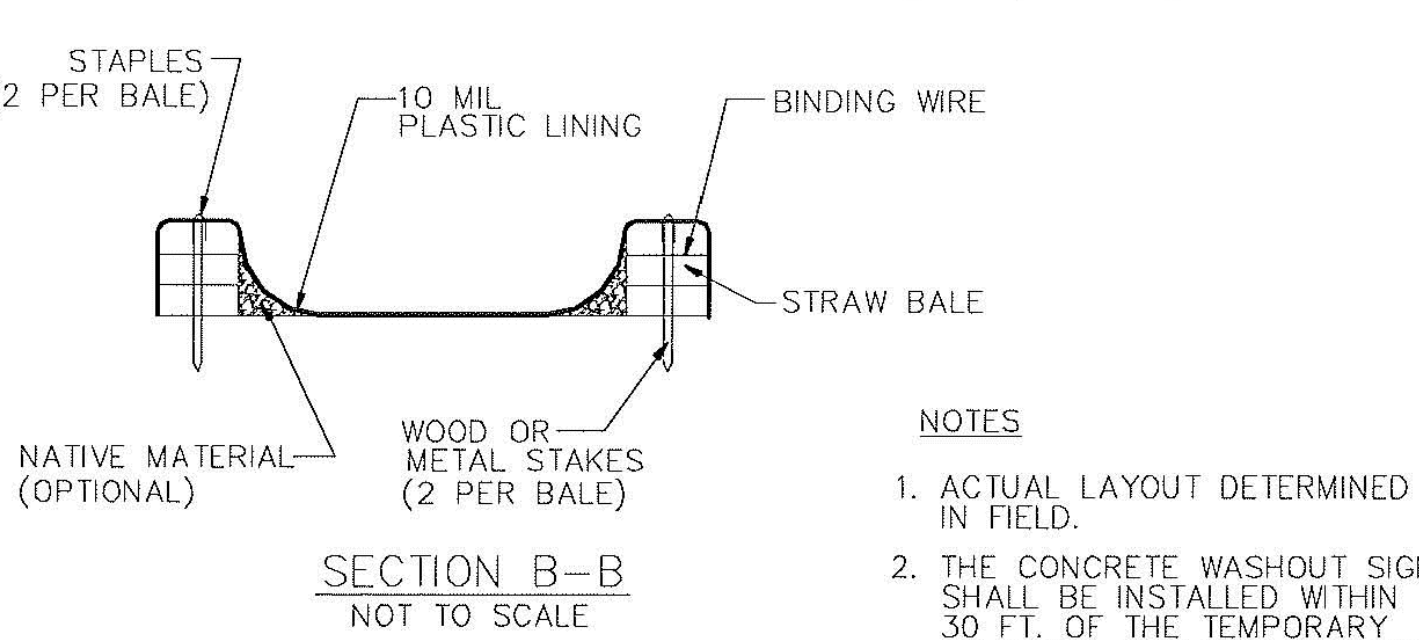
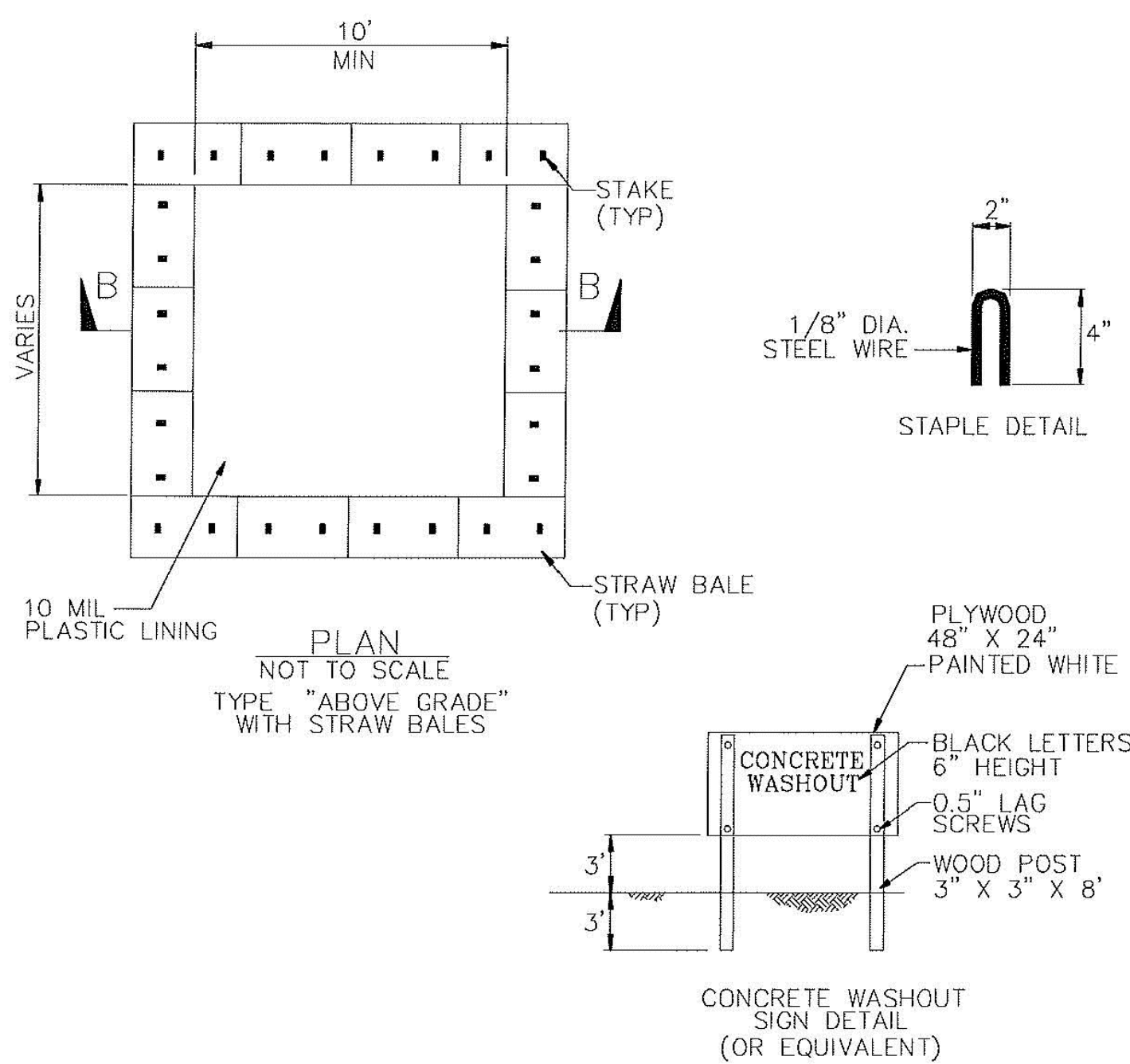
TYPICAL FIBER ROLL INSTALLATION
N.T.S.



ENTRENCHMENT DETAIL
N.T.S.

Concrete Waste Management

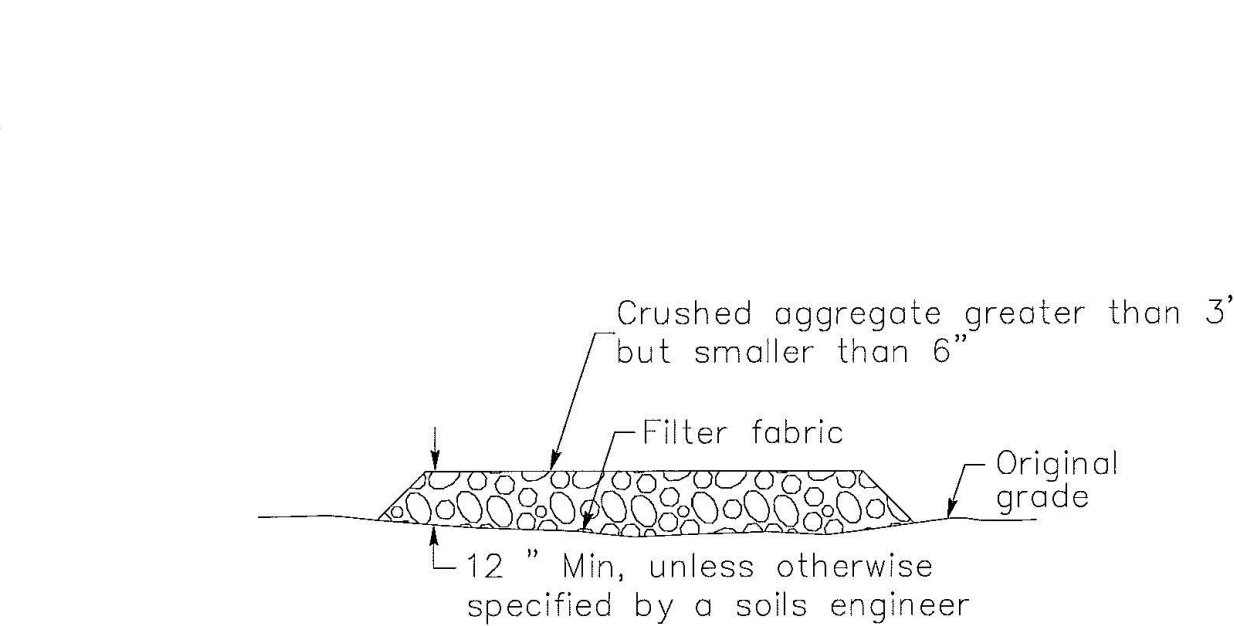
WM-8



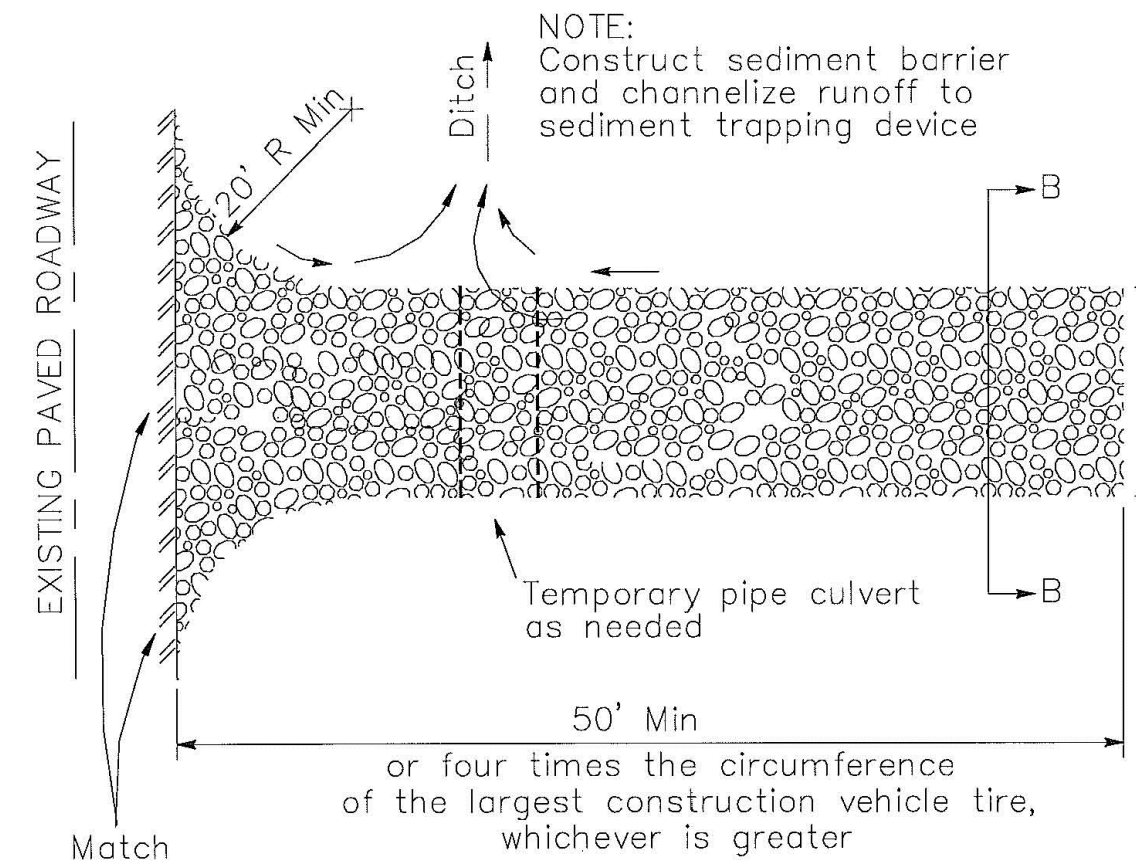
- NOTES
1. ACTUAL LAYOUT DETERMINED IN FIELD.
 2. THE CONCRETE WASHOUT SIGN SHALL BE INSTALLED WITHIN 30 FT. OF THE TEMPORARY CONCRETE WASHOUT FACILITY.

Stabilized Construction Entrance/Exit

TC-1



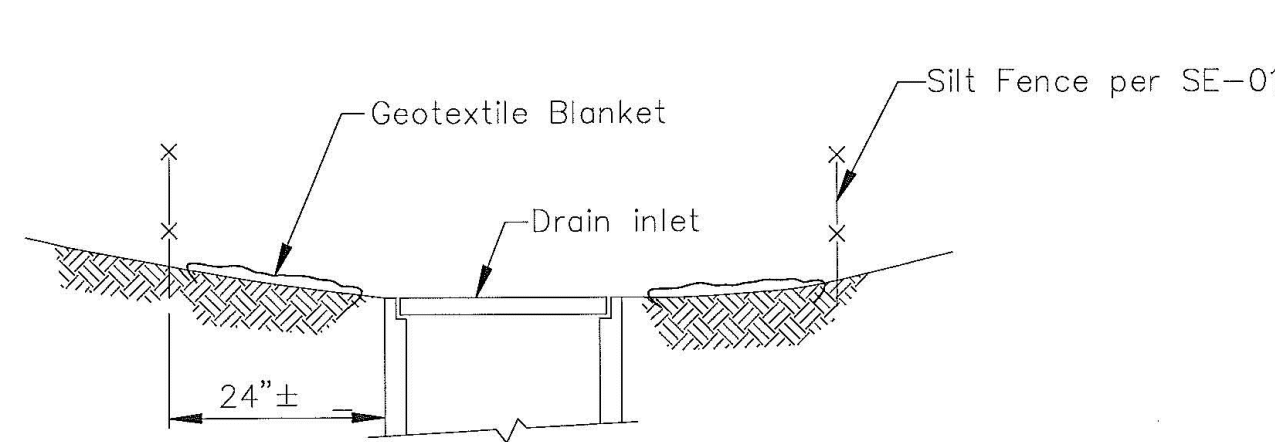
SECTION B-B
N.T.S.



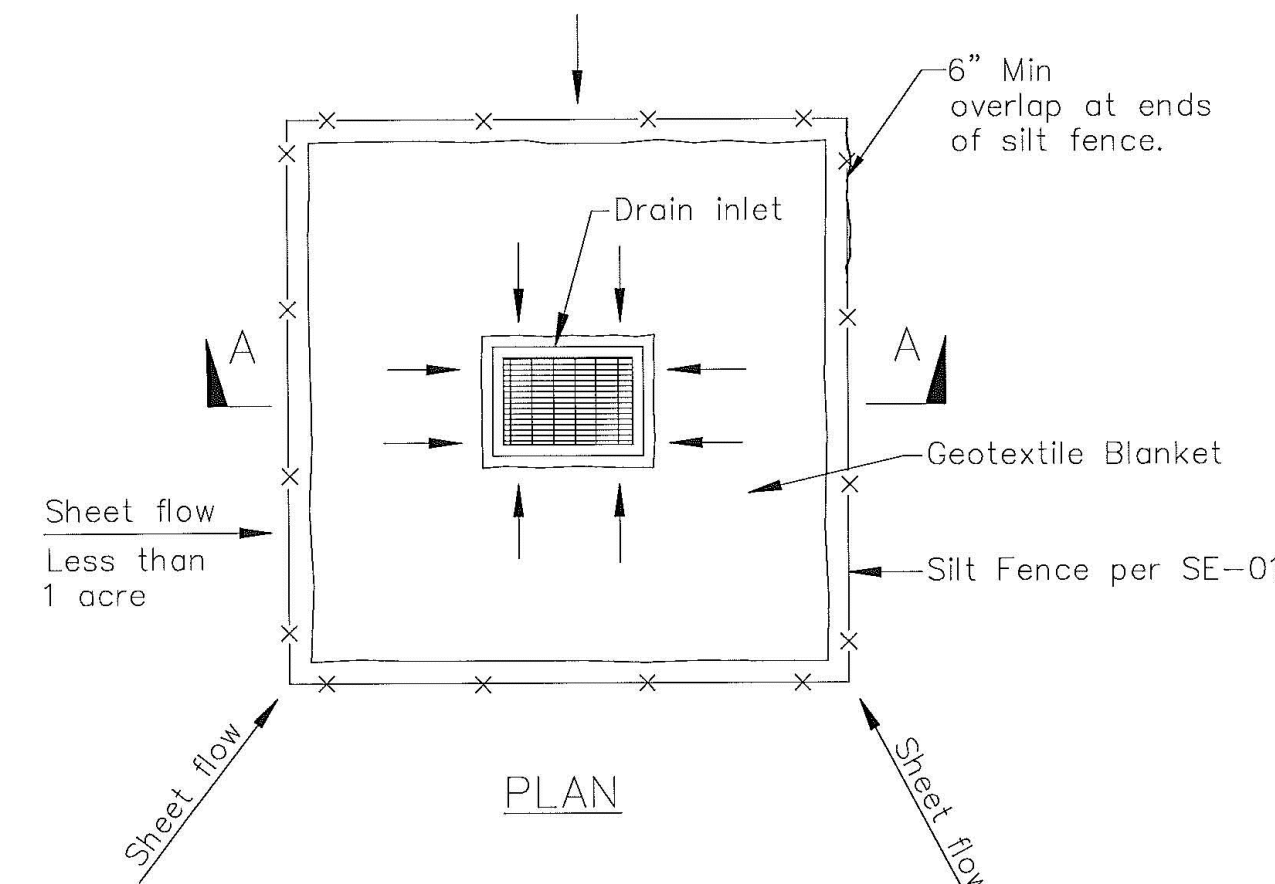
PLAN
N.T.S.

Storm Drain Inlet Protection

SE-10



SECTION A-A



DI PROTECTION TYPE 1
NOT TO SCALE

- NOTES:
1. For use in areas where grading has been completed and final soil stabilization and seeding are pending.
 2. Not applicable in paved areas.
 3. Not applicable with concentrated flows.

Issues & Revisions:	Date	CONSULTANTS: SANDIS CIVIL ENGINEERS SURVEYORS PLANNERS 10000 Sandis Drive San Diego, CA 92121 P: 619.594.0000 F: 619.594.0099 www.sandis.com	DATE MAY 6, 2014 KENNETH N. OLCOTT R.C.E. NO. 51079, EXPIRES 9-30-15	KEY PLAN	ARCHITECT/ENGINEERS: IMEI architecture + interiors 239 9TH STREET, SUITE 201 SAN FRANCISCO, CA 94103 T: 415.682.7279 F: 415.682.7239 www.projectracks.com	Drawing Title EROSION CONTROL DETAILS	Project Title CONSOLIDATE / EXPAND MEDICAL PROCEDURES MINOR (CEMP)	Project Number 612-111	Office of Facilities Management Department of Veterans Affairs
Approved: Project Director	Location VANCHCS - MATHER, CA	Date MAY 6, 2014	Checked BC	Drawn PCG	C 701 Dwg. -- of --				